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4. A stator assembly as set forth in claim 3, wherein said stator core defines a total of forty-eight of said winding slots.

1. The first step is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved.

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9. A stator/assembly for an electromechanical machine, said stator assembly comprising:

at least six coil groups of electrical windings,  
each of said coil groups having a plurality of winding  
coils arranged concentrically; and

10. A stator assembly as set forth in claim 9,  
wherein:

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(a) providing a magnetically permeable stator core having a cylindrical inner surface defining a plurality of radial, axially-extending winding slots;

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14. A method as set forth in claim 13, wherein each of said coil groups are inserted in step (c) such that a predetermined number of said winding coils are singularly located in spaced apart pairs of said winding slots and a remaining number of said winding

coils are in spaced apart pairs of said winding slots along with coil sides of said winding coils in other groups.

15. A method as set forth in claim 14, wherein said at least six coil groups comprise a total of six coil groups inserted in said stator core to provide a three-phase, two-pole stator assembly.

16. A method as set forth in claim 15, wherein said coil groups are inserted in said stator core such that said winding coils that are singularly located in one said coil group are positioned adjacent to said winding coils that are singularly located of another coil group within a mutual phase.

17. A method as set forth in claim 14, wherein each of said coil groups comprises a total of six winding coils.

18. A method as set forth in claim 17, wherein two of said six winding coils are singularly located in said winding slots and four of said six winding coils are shared in said winding slots.

19. A method as set forth in claim 13, wherein an equal number of said power leads are connected to said coil groups at each end of said stator core.

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